



Docket No.: S&ZIO030801

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By: 

Date: November 12, 2003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applic. No. : 10/653,653  
Applicant : Michael Kandler  
Filed : September 2, 2003  
Art Unit : to be assigned  
Examiner : to be assigned

Docket No. : S&ZIO030801  
Customer No. : 24131

INFORMATION DISCLOSURE STATEMENT

Hon. Commissioner for Patents

Sir:

In accordance with 37 C.F.R. 1.98 copies of the following patents and/or publications are submitted herewith:

United States Patent No. 5,635,691 (Ballyns), dated June 3, 1997;

German Published Non-Prosecuted Patent Application DE 198 02 773 A1 (inventor not named), dated July 29, 1999, and English abstract thereof. It discloses apparatus and methods for the wireless transmission of measured values from a tire to an evaluation means 5. According to this document, the measured values are transmitted from a first coil 2 to a second coil 4, which is arranged in a concentric manner with respect to the tire 1.

German Published Non-Prosecuted Patent Application DE 198 54 176 A1 (Brosow), dated May 31, 2000, and English abstract thereof. It relates to an apparatus for monitoring the operating state of a tire 1 comprising at least one transponder unit associated to each tire. Each transponder unit has at least one sensor 4. the sensors are connected to a display means, preferably provided at the dashboard of a

vehicle. If a given tolerance value is exceeded, appropriate measures will be taken, for example, an acoustical or optical warning signal will be triggered. Energy for the transponder unit is transmitted to the respective transponder chip 5 from a base station 7 in a wireless manner.

German Utility Model DE 201 10 349 U1, dated October 4, 2001, system for monitoring a vehicle tire. It relates to a system for monitoring a tire. To this end, a signaling means is mounted to the tire, while a receiving means is mounted to the vehicle. According to this document, in preferred embodiments, the signaling-means are means for detecting the velocity from the centrifugal force applied to the signaling means. The detected velocity is displayed on a display means and, if a predetermined velocity value is exceeded, a warning signal will be triggered.

European Patent Application EP 1 028 463 A1 (Koshio), dated August 16, 2000;

French Patent Application FR 2 810 585 A1 (Drouin), dated December 28, 2001, and English abstract thereof;

Korean Patent Application KR 2001 082411 A, dated August 30, 2001;

Japanese Patent Abstracts JP 05 107 141 A (Hodate et al.), dated April 27, 1993;

Japanese Patent Application JP 2000-108622, dated April 18, 2000, and English abstract thereof;

Dirk Jansen et al.: "Projekt Micromechanik-Demonstrator Chip im Reifen, CiR" [project micromechanics demonstrator chip in tire], *IAF-Report, No. 6, 2001, September 20, 2001, pp. 1-32*, discloses a vulcanized measuring system which does not represent a closed module and which is battery powered. The antenna is not formed by a coil integrated into the package, but is formed by a coil wound in a conventional manner.

L. Reindl et al.: "Wireless Remote Identification and Sensing with SAW Devices", *Proc. IEEE 1998 MMT/AP International Workshop on Commercial Radio Sensor and Communication Techniques*, pp. 83-96, describes SAW sensors. The technique

described in this article has been adapted by EPCOS, as can be seen from the "EPCOS foils" listed next.

EPCOS: "Main architecture of TPM Systems on the market or in development", *Automotive Electronics: SAW Resonators and Front End Filters Market Study TPMS*, March 2001, 20 pgs.

M. Tewes et al.: "Wireless Tyre Sensors Based on Amorphous Magneto-Elastic Materials", in Sven Krueger (ed.) et al.: "Advanced Microsystems for Automotive Applications 2001", *Springer Verlag, Berlin, 2001, pp. 83-87*, describes wireless tire sensors based on amorphous metal-elastic materials;

Volker Bachmann et al.: "Future Car-Tires as Provider of Information for Vehicle Systems to Enhance Primary Safety", *Society of Automotive Engineers, Inc., paper No. 981944, August 1998, pp. 67-73*, discloses further tire sensors;

Markus Fach et al.: "Der Darmstädter Reifensensor im Labor und am Fahrzeug" [the Darmstadt tire sensor in the laboratory and in the vehicle], pp. 138-149, no publication data available;

Bert Breuer et al.: "Der Darmstädter Reifensensor – Ein Instrument Zur Messung Dynamischer Grössen Im Rotierenden Rad" [the Darmstadt tire sensor – an instrument for measuring dynamic values in a rotating wheel], *TU Darmstadt, Thema Forschung, No. 1/98, pp. 24-31*;

V. Bachmann: "Untersuchungen zum Einsatz von Reifensensoren im PKW" [research on the use of tire sensors in passenger motor vehicles], *Fortschrittsberichte VDI, Vol. 12, No. 381, Düsseldorf 1999, pp. 2-26; 72-77*;

Johannes Seiler: "Ein Sensor im Reifen erkennt Glätte" [a tire sensor recognizes ice], <http://www.general-anzeiger-bonn.de/news/artikel.php?id=43742>, August 2, 2002;

Rainer Großmann: "Projekt: Reifendruckmessung mit Schwingquarzen" [project: measuring tire pressure by using oscillating crystals], August 2, 2002,

<http://www.emt.ei.tum.de/kollegen/grosmann.html>;

"Ausgezeichnet: Reifen mit Sensor" [Awarded: tires with sensor], February 8, 2002,

[http://www.3sat.de/tips/mobil/28900/index.html?](http://www.3sat.de/tips/mobil/28900/index.html?;);

Continental AG: "Der 'intelligente' Reifen" [the intelligent tire], August 2, 2002,

<http://www.conti->

[online.com/generator/www/con/de/continental/portal/allgemein/innovationen/inno\\_sw\\_t\\_de.html](http://www.conti-online.com/generator/www/con/de/continental/portal/allgemein/innovationen/inno_sw_t_de.html).

In accordance with 37 C.F.R. 1.97(e) the undersigned herewith states that each item of information contained in the information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

If no translation of pertinent portions of any foreign language patents or publications mentioned above is included with the aforementioned copies of those applications, patents and/or publications, it is because no existing translation is readily available to the applicant. As per the Notice in 1273 OG 55 (August 5, 2003) no copies of any above-mentioned U.S. patents and U.S. patent application publications are submitted for any application filed after June 30, 2003.

Respectfully submitted,

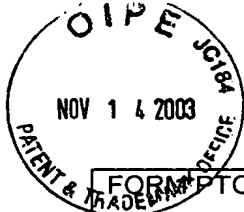
  
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For Applicant

Mark P. Weichselbaum  
Reg. No. 43,248

Date: November 12, 2003

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FORM PTO-1449 (SUBSTITUTE) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT (37 CFR 1.98(b))	Attorney Docket No.: <b>S&amp;ZIO030801</b>	Applic. No. <b>10/653,653</b>
	Applicant <b>Michael Kandler</b>	
	Filing Date <b>September 2, 2003</b>	Group Art Unit

## U.S. PATENT DOCUMENTS

EXAMINER INITIALS		PATENT NO.	DATE	PATENTEE	CLASS	SUB CLASS	FILING DATE
	A	5,635,691	06/03/97	Ballyns			
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## FOREIGN PATENT DOCUMENT

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB CLASS	TRANSL. YES   NO
	J	198 02 773 A1	07/29/99	Germany			X
	K	198 54 176 A1	05/31/00	Germany			X
	L	201 10 349 U1	10/04/01	Germany			X
	M	1 028 463 A1	08/16/00	Europe			X
	N	2 810 585 A1	12/28/01	France			X

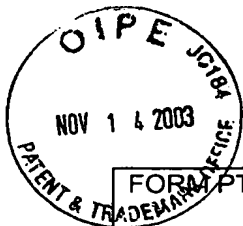
## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

O	Dirk Jansen et al.: "Projekt Micromechanik-Demonstrator Chip im Reifen, CiR" [project micromechanics demonstrator chip in tire], <i>IAF-Report</i> , No. 6, 2001, September 20, 2001, pp. 1-32
P	L. Reindl et al.: "Wireless Remote Identification and Sensing with SAW Devices", Proc. IEEE 1998 MMT/AP International Workshop on Commercial Radio Sensor and Communication Techniques, pp. 83-96

EXAMINER

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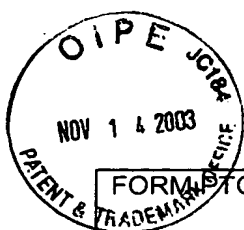
DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB CLASS	TRANSL. YES	TRANSL. NO
J 2001 082411 A ✓	08/30/01	Korea			X	
K 05 107 141 A	04/27/93	Japan			X	
L 2000-108622	04/18/00	Japan			X	
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O	EPCOS: "Main architecture of TPM Systems on the market or in development", <i>Automotive Electronics: SAW Resonators and Front End Filters Market Study TPMS, March 2001, 20 pgs</i>
P	M. Tewes et al.: "Wireless Tyre Sensors Based on Amorphous Magneto-Elastic Materials", in Sven Krueger (ed.) et al.: "Advanced Microsystems for Automotive Applications 2001", <i>Springer Verlag, Berlin, 2001, pp. 83-87</i> , describes wireless tire sensors based on amorphous metal-elastic materials

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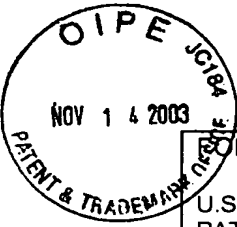
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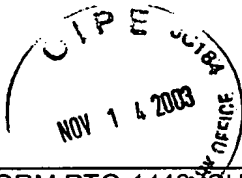
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	P	Continental AG: "Der 'intelligente' Reifen" [the intelligent tire], August 2, 2002, <a href="http://www.conti-online.com/generator/www/con/de/continental/portal/allgemein/innovationen/inno_swt_de.html">http://www.conti-online.com/generator/www/con/de/continental/portal/allgemein/innovationen/inno_swt_de.html</a>

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